From the INTERNATIONAL SEARCHING AUTHORITY

To: FISH & RICHARDSON P.C. Attn. Juliano, Joseph P.O. Box 1022 Minneapolis MN 55440-1022

ETATS-UNIS D'AMERIQUE

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing (day/month/year)

30/11/2006 Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below 09991-181WO1 International application No. International filing date (day/month/year) 11/10/2005 PCT/US2005/036807 Applicant DIMATIX, INC.

1. X The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

The time limit for filing such amendments is normally two months from the date of transmittal of the International Search Report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 338.82.70

For more detailed instructions, see the notes on the accompanying sheet.

The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis. 1 and 90 bis. 3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fax: (+31-70) 340-3016

Authorized officer

Marja Brouwers

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220							
09991-181WO1	ACTION	as well as, where applicable, item 5 below.							
International application No.	International filing date (day/month)	(Year) (Earliest) Priority Date (day/month/year)							
PCT/US2005/036807	11/10/2005	29/10/2004							
Applicant									
DIMATIX, INC.	DIMATIX, INC.								
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant									
according to Article 18. A copy is being tra	ansmitted to the international bureau.								
This international search report consists of									
X It is also accompanied by	a copy of each prior art document cit	ed in this report.							
Basis of the report									
a. With regard to the language, the	international search was carried out of	on the basis of:							
	application in the language in which it								
	e international application into irnished for the purposes of internatio	. which is the language nal search (Rules 12.3(a) and 23.1(b))							
b. With regard to any nucle	otide and/or amino acid sequence	disclosed in the international application, see Box No. I.							
2. Certain claims were fou	2. Certain claims were found unsearchable (See Box No. II)								
3. Unity of invention is lac	king (see Box No III)								
4. With regard to the title ,									
X the text is approved as so	ubmitted by the applicant								
the text has been establis	shed by this Authority to read as follow	vs:							
<u> </u>									
(
5. With regard to the abstract,									
X the text is approved as so	ubmitted by the applicant								
		is Authority as it appears in Box No. IV. The applicant onal search report, submit comments to this Authority							
6. With regard to the drawings ,									
a. the figure of the drawings to be	published with the abstract is Figure N	lo. <u>6a</u>							
X as suggested by	the applicant								
as selected by th	is Authority, because the applicant fai	led to suggest a figure							
as selected by th	is Authority, because this figure bette	r characterizes the invention							
b. none of the figures is to b	be published with the abstract								

INTERNATIONAL SEARCH REPORT

International application No PCT/US2005/036807

A. CLASS	SIFICATION OF SUBJECT MATTER G06F3/12					
INV. GUOF 3/12						
According	According to International Patent Classification (IPC) or to both national classification and IPC					
	S SEARCHED					
Minimum d G06K	documentation searched (classification system followed by class $G06F$	ification symbols)				
Documenta	ation searched other than minimum documentation to the extent	that such documents are included in the fields s	earched			
Electronic	data base consulted during the international search (name of da	ata hase and, where practical search terms use	٦)			
	nternal, WPI Data, INSPEC, COMPEND		,			
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of t	he relevant passages	Relevant to claim No.			
X	EP 1 293 341 A2 (DAINIPPON SCR [JP]) 19 March 2003 (2003-03-1 paragraph [0046] paragraph [0067] paragraph [0079] figure 7		1-27			
X	EP 1 452 313 A (OLYMPUS CORP [1 September 2004 (2004-09-01) paragraph [0006] paragraph [0050] paragraph [0056] figures 12,13	[JP])	1-27			
Α	EP 1 212 201 A1 (MIKOH IMAGING LTD [AU]) 12 June 2002 (2002-0 page 2, line 7 - line 19 page 10, line 15 - page 11, li	06-12)	1-27			
Fur	ther documents are listed in the continuation of Box C.	X See patent family annex.				
·	categories of cited documents :	*T* later document published after the int or priority date and not in conflict with	n the application but			
considered to be of particular relevance *E* earlier document but published on or after the international filling date *X* document of particular relevance; the claimed invention cannot be considered to						
 L document which may throw doubts on priority claim(s) or which is citled to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *Involve an inventive step when the document is taken alone when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is caken alone 						
P document published prior to the international filing date but later than the priority date claimed in the art. *&* document member of the same patent family						
Date of the	e actual completion of the international search	Date of mailing of the international se-	arch report			
2	23 November 2006	30/11/2006				
Name and	mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	Authorized officer				
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Mazur, David				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2005/036807

Patent document cited in search report	ĺ	Publication date		Patent family member(s)		Publication date
EP 1293341	A2	19-03-2003	JP JP US	3714894 2003084447 2003048467	Α	09-11-2005 19-03-2003 13-03-2003
EP 1452313	Α	01-09-2004	WO JP US	03047867 2003165263 2004218200	A	12-06-2003 10-06-2003 04-11-2004
EP 1212201	A1	12-06-2002	WO CN JP NZ	0112444 1376116 2004516162 517389	A T	22-02-2001 23-10-2002 03-06-2004 26-09-2003

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHOR	DOT
To:	PCT
see form PCT/ISA/220 Applicant's or agent's file reference	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day:monthyear) see form PCT/ISA/210 (second sheet)
see form PCT/ISA/220	FOR FURTHER ACTION See paragraph 2 below
International application No. PCT/US2005/036807	International filing date (day-month-year) 11.10.2005 Priority date (day-month-year) 29.10.2004
International Patent Classification (IPC) or INV. G06F3/12	both national classification and IPC
Applicant DIMATIX, INC.	
1. This opinion contains indication	ons relating to the following items:
□ Box No. IV Lack of unity of Box No. V Reasoned state applicability; of □ Box No. VI Certain docum □ Box No. VII Certain defects □ Box No. VIII Certain observed. 2. FURTHER ACTION If a demand for international pre	ment of opinion with regard to novelty, inventive step and industrial applicability of invention rement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial stations and explanations supporting such statement statement sents cited in the international application varions on the international application.
the applicant chooses an Author International Bureau under Rule will not be so considered. If this opinion is, as provided about the IPEA a written replacement in the IPEA as written replacement.	al Preliminary Examining Authority ("IPEA") except that this does not apply where ity other than this one to be the IPEA and the chosen IPEA has notifed the 66.1 bis(b) that written opinions of this International Searching Authority ove, considered to be a written opinion of the IPEA, the applicant is invited to by together, where appropriate, with amendments, before the expiration of 3 months PCT/ISA/220 or before the expiration of 22 months from the priority date,
3. For further details, see notes to Name and mailing address of the ISA:	Date of completion of Authorized Officer

this opinion

European Patent Office - P.B. 5818 Patentia age form NL-2280 HV Rijswijk - Pays Bas
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl
Fax: +31 70 340 - 3016

PCT/ISA/210

Mazur, David

Telephone No. +31 70 340-2922



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Comment of the Control of the Contro

International application No. PCT/US2005/036807

_	Вох	N	o. I Basis of the opinion			
1.	Witl	ı re	gard to the language , this opinion has been established on the basis of:			
	★ The international application in the language in which it was filed					
			ranslation of the international application into , which is the language of a translation furnished for the rposes of international search (Rules 12.3(a) and 23.1 (b)).			
2.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:					
	ī		a sequence listing			
			table(s) related to the sequence listing			
	b. format of material:					
	[on paper			
	[in electronic form			
	c. ti	me	of filing/furnishing:			
	[contained in the international application as filed.			
	[filed together with the international application in electronic form.			
	E		furnished subsequently to this Authority for the purposes of search.			
3.		ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.			
4.	Ado	litio	nal comments:			

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1,10,19

No:

Claims

Inventive step (IS)

Yes: Claims

Claims

1,10,19

Industrial applicability (IA)

No:

Yes: Claims

1,10,19

Claims No:

2. Citations and explanations

see separate sheet

Re Item V.

1 Reference is made to the following document:

D1: EP-A2-1 293 341 (DAINIPPON SCREEN MFG [JP]) 19 March 2003 (2003-03-19)

2 INDEPENDENT CLAIM 1

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not inventive in the sense of Article 33(3) PCT.

Document D1 discloses:

A computer-implemented method comprising:

identifying configuration parameters of a printing device ("CTP information about the number of recording heads...", par. 0046);

dividing an image into image portions based on the configuration parameters (see division location designation in par. 0067 and more specifically "... a certain location in response of the secondary scanning rate of the individual recording head"); generating a plurality of image data packets, each image data packet including one or more image portions ("Based on the signal, the print data division part 250 divides the print data PPD", par. 0079); and

transmitting the image data packets to the printing device (see Fig. 7. Each "print data PPD" is sent to its designated print head).

The difference between the present application and D1 consists of sending a request to the printer for its properties, and receiving said properties from the printer. D1 does not explicitly disclose that the number or the characteristics of the print heads are requested by the printer, but nevertheless, the printer knows about these features. Therefore, even if it cannot be said that these features are explicitly or implicitly disclosed, they cannot be considered anything but trivial, given the absence of any other alternative to acquire these head characteristics.

Therefore the subject-matter of independent claim 1 does not involve an inventive

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2005/036807

step.

3 INDEPENDENT CLAIMS 10,19

The above inventive step objections are applicable mutatis mutandis to the computer program product defined by independent claim 10 and the printing system defined by independent claim 19, both having the same features as the method of independent claim 1.

4. DEPENDENT CLAIMS 2-9,11-18,20-27

Dependent claims 2-9,11-18,20-27 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).